

WHAT IS CLAIMED IS:

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*as*
1. LK6 protein (SEQ ID NO: 4) consisting of amino acid sequences of human apolipoprotein(a) kringle domains IV36.
  2. LK7 protein (SEQ ID NO: 6) consisting of amino acid sequences of human apolipoprotein(a) kringle domains IV37.
  3. LK8 protein (SEQ ID NO: 8) consisting of amino acid sequences of human apolipoprotein(a) kringle domains V38.
  4. LK68 protein (SEQ ID NO: 2) consisting of amino acid sequences of human apolipoprotein(a) kringle domains IV36, IV37 and V38 in a serial manner
  5. A cDNA sequence (SEQ ID NO: 3) which codes for the LK6 protein of claim 1.
  6. A cDNA sequence (SEQ ID NO: 5) which codes for the LK7 protein of claim 2.
  7. A cDNA sequence (SEQ ID NO: 7) which codes for the LK8 protein of claim 3.
  8. A cDNA sequence (SEQ ID NO: 1) which codes for the LK68 protein of claim 4.
  9. A recombinant expression vector pET15b/LK6 comprising the cDNA of claim 5 which expresses the LK6 protein of claim 1.
  10. A recombinant expression vector pET15b/LK7 comprising the cDNA of claim 6 which expresses the LK7 protein of claim 2.

11. A recombinant expression vector pET15b/LK8 comprising the cDNA of claim 7 which expresses the LK8 protein of claim 3.

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12. A recombinant expression vector pET11a/LK68 comprising the cDNA of claim 8 which expresses the LK68 protein of claim 4.

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13. *Escherichia coli* BL21(DE3)/LK6(KCTC0655BP) transformed with the recombinant expression vector pET15b/LK6 of claim 9.

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14. *Escherichia coli* BL21(DE3)/LK7(KCTC0656BP) transformed with the recombinant expression vector pET15b/LK7 of claim 10.

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15. *Escherichia coli* BL21/LK8(KCTC0634BP) transformed with the recombinant expression vector pET15b/LK8 of claim 11.

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16. *Escherichia coli* BL21/LK6-8(KCTC0633BP) transformed with the recombinant expression vector pET11a/LK68 of claim 12.

17. An anticancer agent which comprises an active ingredient of LK68 protein, its single kringles, or their functional equivalents and pharmaceutically acceptable carrier.

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18. A method for treating angiogenesis-mediated disease which comprises administering therapeutically effective amount of LK 68 protein, its single kringles, or their functional equivalents to a human or animal.

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19. The method for treating angiogenesis-mediated disease of claim 18, wherein the angiogenesis-mediated

disease is cancer, rheumatoid arthritis, psoriasis, or ocular angiogenic disease.